



NORTH AMERICA. No. 1 (1875).

2968  
424

CORRESPONDENCE

RESPECTING THE

1/ Great Britain  
2/ Parliament

DETERMINATION OF THE NORTH-WESTERN  
BOUNDARY

3/ Papers by command

BETWEEN

CANADA AND THE UNITED STATES.

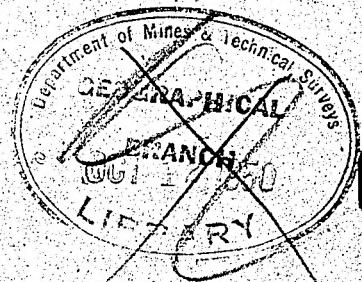
*Presented to both Houses of Parliament by Command of Her Majesty.*

5 [ 1875.

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## CORRESPONDENCE respecting the Determination of the North-Western Boundary between Canada and the United States.

No. 1.

*Captain Cameron, R.A., to the Earl of Derby.—(Received December 1.)*

My Lord,

*Dufferin, Manitoba, Canada, November 3, 1874.*

I HAVE the honour to report the progress made in carrying out my duties as Boundary Commissioner.

The international boundary line—between the United States and Canada—from the most north-west point of the Lake of the Woods, due south to the parallel of  $49^{\circ}$  of north latitude, and thence westward to the “Stony” or Rocky Mountains, has been determined in accordance with the II<sup>nd</sup> Article of the Convention of London, 20<sup>th</sup> October, 1818.

2. A party is now engaged in placing iron pillars along the line of the meridian of the most north-west point of the Lake of the Woods, southward to the point where the line enters the lake, and in which it intersects the parallel of  $49^{\circ}$  north latitude.

3. From the western shore of the lake, for a distance of about 55 miles along the parallel of  $49^{\circ}$  north latitude, the country being very swampy, is inaccessible, except when frozen. Preparations have been made for placing iron pillars on such available sites as there are, when access can be gained to this portion of the line.

4. Westward from the swamp district just referred to, for a distance of 115 miles along the south of the Province of Manitoba, to its western boundary, iron pillars have been placed at 2 mile intervals.

5. Westward from Manitoba to the eastern end of the international boundary previously run and marked from the Pacific coast, the line is indicated by cairns, generally about 3 miles apart.

6. With the exception of about 19 miles at the western end of the line, the whole has been cleared of trees.

7. The western end of the line traverses impracticable ground in the Rocky Mountain ranges; and in this length of 19 miles it was considered sufficient to mark only two points, viz., the passage of Belly River, and the crossing of Lake Waterton.

8. To provide for the possible disappearance of monuments, and the definition of the line in intervening spaces, the United States' Commissioner has agreed with me in deciding that the line in traversing these spaces, shall be held to run from point to point of astronomically determined  $49^{\circ}$  north latitude, following the course of a line having the curvature due to a parallel of that latitude.

8. The Chief Astronomer, his two assistants, and six Royal Engineers have proceeded to Ottawa, where public office accommodation has been placed at their disposal, to complete maps and office work generally.

A surveyor, temporarily employed here on a Committee of Audit, is about to join the party at Ottawa.

9. The remainder of the detachment of Royal Engineers who were employed in surveying, has been disposed of by discharge from the service, or by remission to garrison duties at Halifax, Nova Scotia. Authority for this arrangement was received from the Horse Guards.

10. The services of the staff and employes generally are being dispensed with as rapidly as the public interests permit.

11. Provision having necessarily been made for the possibility of the field work being continued beyond the present season, there remains on hand a larger stock of supplies than can be disposed of immediately without incurring a loss which may be avoided by a more gradual sale. The real property—land and buildings—here, belonging to the Commission, is too valuable to be disposed of hastily. The prospect—from the opening

of railway communication with the United States next year—of a considerable rise in the value of all real estate in this Province is very good, and especially so in the case of such as has the advantages of location offered by the site of the expedition winter quarters.

12. Under the circumstances I have concluded that the interests entrusted to my charge may be best served by my remaining here during the winter.

13. I have contemplated sending the Secretary to England, in order that, by placing himself in immediate communication with the War Office, the final closing of the Commission accounts may be facilitated and expedited. Should this arrangement be approved of, the Secretary would proceed to London as soon as he has closed his work here, and has had the leave of absence which his arduous duties have, I regret to say, rendered necessary, and to which his unremitting zeal and application have so well entitled him.

I have, &c.  
(Signed) D. R. CAMERON, *Captain R.A.,*  
*Her Majesty's Commissioner.*

No. 2.

*The Earl of Derby to Captain Cameron, R.A.*

Sir,

*Foreign Office, January 13, 1875.*

I HAVE had under my consideration, in communication with Her Majesty's Secretaries of State for the Colonies and for War, your despatch of the 3rd of November, reporting the completion of the tracing of the boundary line from the Lake of the Woods to the Rocky Mountains, and the arrangements which you propose to make for winding up the business of the Commission, and I have to state to you that your proceedings are approved by Her Majesty's Government, and that you are authorized to remain in Canada during the winter, and to send the Secretary home to assist in closing the accounts.

I am, &c.  
(Signed) DERBY.



NORTH AMERICA. No. 1 (1875).

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CORRESPONDENCE respecting the Determination of  
the North-Western Boundary between Canada  
and the United States.

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*Presented to both Houses of Parliament by Com-  
mand of Her Majesty. 1875.*

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LONDON :

NORTH AMERICA. No. 8 (1876).

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**FURTHER CORRESPONDENCE**

RESPECTING THE

**DETERMINATION OF THE BOUNDARY**

BETWEEN

**CANADA AND THE UNITED STATES.**

(In continuation of "North America No. 1, 1875.")

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*Presented to both Houses of Parliament by Command of Her Majesty.*  
1876.

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## Further Correspondence respecting the Determination of the Boundary between Canada and the United States.

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*Major Cameron, R.A., to the Earl of Derby.—(Received June 16.)*

*Office of the North American Boundary Commission,  
London, June 15, 1876.*

My Lord,

I HAVE the honour to forward herewith a record of the proceedings at my last meeting with Mr. Archibald Campbell, the United States' Commissioner appointed to act with me in ascertaining and marking the boundary from the most north-western point of the Lake of the Woods to the Rocky Mountains between the territories of Her Majesty and those of the United States.

2. The Record consists of—

(A.) A detailed list of the astronomical stations at which observations were taken, and whence the exact position of the line was deduced.

(B.) A detailed descriptive list of 388 marks placed on the line.

(C.) A set of twenty-four maps\* (exclusive of an index sheet) on a scale of one inch to two miles, embracing an area of over 9,000 square miles, illustrating topographical features in detail, and indicating the positions of the astronomical stations and of the marks on the line.

(D.) A Minute that the marks above referred to are accepted by Mr. Campbell and myself as being on the line defined by the 2nd Article of the Convention of London, signed on the 20th October, 1818, that we agree that between any two neighbouring marks the boundary is a line having the curvature of a parallel of 49 degrees north latitude, and that, in the event of any mark placed on the line being obliterated beyond recognition, its lost site is to be recovered by reference to its recorded position relatively to the nearest unobliterated mark or marks.

3. These documents, including the maps, have been made in duplicate, and signed by both Mr. Campbell and myself; one copy I now forward to your Lordship, the other has been retained by Mr. Campbell for delivery to the Government of the United States.

4. Of the 388 marks placed on the boundary line there are eight in an extensive swamp, between thirty-three and forty-two miles west from the Lake of the Woods, which are of a comparatively temporary character. The softness of the subsoil precluded the placing of permanent monuments by the expedition in the swamp, and the marks here consist of a collection of forty-feet poles driven down twenty feet. It will probably be considered unnecessary to maintain these, or to incur the great expense which would be involved in substituting permanent marks in their stead.

5. The iron pillars referred to in the accompanying list should be coated at intervals of a few years, to preserve them from corrosion, and the cairns and earthen mounds should be inspected periodically with a view to repairing such of them as may need it.

I have, &c.

(Signed)

D. R. CAMERON, Major, R.A.,

*Her Majesty's Commissioner.*

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\* These Maps are in the Foreign Office Library.

## Inclosure 1.

(A.) List of the Astronomical Stations observed by the Joint Commission for the determination of the International Boundary Line from the North-West Angle of the Lake of the Woods to the Rocky Mountains.

No.	Name of the Astronomical Station.	Distance from Lake of Woods Station.		Longitude West of Greenwich.	Remarks.
		Miles.	Links.		
	North-West Angle .. .. .			95 08 39.7	Latitude 49° 22' 19.137"
1	Lake of the Woods (joint) .. .. .	0	0	95 16 55.3	
2	Pine River .. .. .	31	7,205	95 59 01.1	
3	West Rosseau Ridge .. .. .	68	1,283	96 46 51.9	
4	Red River (joint) .. .. .	88	4,936	97 13 51.5	
5	Pointe de Michel (joint) .. .. .	108	5,962	97 40 25.2	
6	Pembina Mountain, East (joint) .. .. .	124	2	98 00 33	
7	Pembina Mountain, West .. .. .	135	6,307	98 16 06.3	
8	Long River .. .. .	165	1,305	98 54 52.1	
9	Sleepy Hollow .. .. .	183	3,911	99 19 02.4	
10	Turtle Mountain, East .. .. .	203	7,729	99 46 04.3	
11	Turtle Mountain, West .. .. .	238	1,510	100 31 13.9	
12	1st Souris (or Mouse River) .. .. .	258	744	100 57 29.8	
13	South Antler .. .. .	281	1,973	101 28 03	
14	2nd Souris (or Mouse River) .. .. .	303	7,150	101 57 56.1	
15	United States' No. 8 Astronomical Station .. .. .	325	3,846	102 26 25.2	
16	Short Creek .. .. .	343	2,892	102 50 00.9	Observed by the Joint Commission, 1861.
17	3rd Mouse River .. .. .	359	3,254	103 11 11.3	
18	Grand Coteau .. .. .	377	2,977	103 34 53.7	
19	Mid Coteau .. .. .	400	4,925	104 05 34	
20	Big Muddy .. .. .	426	5,035	104 39 53.6	
21	Bully Spring .. .. .	451	1,841	105 12 21.4	
22	Poplar River .. .. .	473	3,454	105 41 39.2	
23	West Poplar .. .. .	496	6,906	106 12 34.4	
24	Little Rocky .. .. .	522	4,742	106 46 31.5	
25	Frenchman's Creek .. .. .	550	6,740	107 23 48.2	
26	Cottonwood Coule .. .. .	567	3,881	107 45 45.9	
27	Pool on Prairie .. .. .	588	1,931	108 13 09.2	
28	Near Goose Lake .. .. .	615	3,202	108 48 59.6	
29	East Fork .. .. .	642	218	109 24 27.8	
30	West Fork .. .. .	655	2,357	109 41 38.2	
31	Milk River Lake .. .. .	677	281	110 10 19.5	
32	Milk River .. .. .	702	3,023	110 43 46.1	
33	East Butte .. .. .	723	383	111 11 02.5	
34	West Butte .. .. .	739	5,770	111 33 02.6	
35	Red Creek .. .. .	760	3,160	112 00 19.5	
36	2nd Milk River (or South Branch) .. .. .	785	0,279	112 32 50.3	
37	North Branch, Milk River .. .. .	804	3,361	112 58 25.2	
38	Rocky Mountains .. .. .	825	6,138	113 26 35.3	
39	Belly River .. .. .	836	3,385	113 40 39	
40	Chief Mountain Lake .. .. .	846	240	113 53 19.7	
	Akamina .. .. .	853	2,529	114 02 56.5	

(Signed)

D. R. CAMERON, Major, R.A., Her  
Britannic Majesty's Commissioner.

ARCHIBALD CAMPBELL, United  
States' Commissioner.

W. J. TWINING, Captain of Engi-  
neers, United States' Chief Astronomer.

S. ANDERSON, Captain, R.E.,  
British Chief Astronomer.

May 29, 1876.

## Inclosure 2.

## (B.) List of the Monuments marking the International Boundary Line from the North-West Angle of the Lake of the Woods to the Rocky Mountains.

*Monuments Marking the South Line.*

No.	Distance South of North-West Point		Nature of Monument.	Longitude West of Greenwich.	Remarks.
	Miles.	Links.			
..	..	..	Not marked .. ..	95 08 57.7	North - west point in swamp. Latitude 49° 23' 50.3".
1	1	3,071	Iron pillar .. ..	95 08 57.7	Latitude 49° 22' 38.2".
2	1	7,001	" .. ..	95 08 57.7	Latitude 49° 22' 12.6". North of Dawson Road.
3	2	2,797	" .. ..	95 08 57.7	Latitude 49° 21' 47.8".
4	3	3,626	" .. ..	95 08 57.7	Latitude 49° 20' 50.4".
5	5	945	" .. ..	95 08 57.7	Latitude 49° 19' 23.6".
6	6	1,882	Granite cairn .. ..	95 08 57.7	Latitude 49° 18' 25.4".
7	7	4,351	Iron pillar .. ..	95 08 57.7	Latitude 49° 17' 17.2".

\* Indicates that an iron tablet was buried 2 feet deep and 10 feet east of the Monument, and † indicates that an iron tablet was buried also in the centre of the monument.

No.	Distance from Lake of the Woods.		Nature of Monument.	Longitude West of Greenwich.	Remarks.
	Miles.	Links.			
1	..	..	Stone cairn, 7½ ft. by 8 ft. ..	95 16 55.3	Lake of the Woods Astronomical Station.
2	3	0	Earth mound, 7 ft. by 14 ft. ..	95 20 52.8	
3	5	0	" 7 ft. by 14 ft. ..	95 23 31.1	
4	9	0	Iron pillar .. ..	95 28 47.8	
5	12	0	Earth mound, 7 ft. by 14 ft. ..	95 32 45.4	
6	15	0	" 7 ft. by 14 ft. ..	95 36 42.9	
7	17	0	Iron pillar .. ..	95 39 21.2	East of North-east Roseau Crossing.
8	18	2,080	Earth mound, 7 ft. by 14 ft. ..	95 41 01.0	
9	21	0	Iron pillar .. ..	95 44 37.9	
10	24	1,548	Earth mound, 7 ft. by 14 ft. ..	95 48 50.8	
11	25	6,804	Iron pillar .. ..	95 51 02.0	On ridge.
12	29	0	Earth mound, 7 ft. by 14 ft. ..	95 55 11.3	At Pine River.
13	30	0	" 7 ft. by 14 ft. ..	95 56 30.5	
14	32	5,154	" 7 ft. by 14 ft. ..	96 00 00	Marking eastern boundary of Manitoba.
15	33	4,936	" 10 ft. by 6 ft. ..	96 01 16.9	
16	34	4,936	Timber .. ..	96 02 36.0	In Great Roseau Swamp.
17	35	4,936	" .. ..	96 03 55.2	Ditto.
18	36	4,936	" .. ..	96 05 14.4	Ditto.
19	37	4,936	" .. ..	96 36 33.6	Ditto.
20	38	4,936	" .. ..	96 07 52.7	Ditto.
21	39	4,936	" .. ..	96 09 11.9	Ditto.
22	40	4,936	" .. ..	96 10 31.1	Ditto.
23	41	4,936	" .. ..	96 11 50.2	Ditto.
24	42	5,519	Iron pillar .. ..	96 13 15.2	
25	43	4,936	Earth mound, 10 ft. by 6 ft. ..	96 14 28.5	
26	44	5,519	Iron pillar .. ..	96 15 53.6	
27	45	4,936	Earth mound, 10 ft. by 6 ft. ..	96 17 06.9	
28	46	5,519	Iron pillar .. ..	96 18 31.9	
29	47	4,936	Earth mound, 10 ft. by 6 ft. ..	96 19 45.3	
30	48	5,519	Iron pillar .. ..	96 21 10.3	Near 40 mile station.
31	49	4,936	Earth mound, 10 ft. by 6 ft. ..	96 22 23.6	
32	50	5,519	Iron pillar .. ..	96 23 48.6	
33	51	4,936	Earth mound, 10 ft. by 6 ft. ..	96 25 02.0	
34	52	5,519	Iron pillar .. ..	96 26 27.0	
35	53	4,936	Earth mound, 10 ft. by 6 ft. ..	96 27 40.3	
36	54	5,519	Iron pillar .. ..	96 29 05.3	East of Pointe d'Orme.
37	55	5,519	" .. ..	96 30 24.5	West of Pointe d'Orme. Between 37 and 38 the Roseau River, at Pointe d'Orme, crosses the line three times.
38	56	5,519	" .. ..	96 31 43.7	
39	57	5,519	" .. ..	96 33 02.8	

No.	Distance from Lake of the Woods.	Nature of Monument.	Longitude West of Greenwich.	Remarks.
	Miles. Links.			
40	58 5,519	Iron pillar .. ..	96 34 22.0	
41	59 5,519	" .. ..	96 35 41.2	
42	60 5,519	" .. ..	96 37 00.4	
43	61 5,519	" .. ..	96 38 19.6	
44	62 5,519	" .. ..	96 39 38.7	
45	63 5,519	" .. ..	96 40 57.9	
46	64 5,519	" .. ..	96 42 17.1	
47	65 5,519	" .. ..	96 43 36.2	
48	66 5,519	" .. ..	96 44 55.4	
49	67 5,519	" .. ..	96 46 14.6	East of Roseau Ridge.
50	68 5,519	" .. ..	96 47 33.8	West of Roseau Ridge.
51	69 5,519	" .. ..	96 48 52.9	
52	70 5,519	" .. ..	96 50 12.1	
53	71 5,519	" .. ..	96 51 31.3	
54	72 5,519	" .. ..	96 52 50.5	
55	73 5,519	" .. ..	96 54 09.6	
56	74 5,519	" .. ..	96 55 28.8	
57	75 5,519	" .. ..	96 56 48	
58	76 5,519	" .. ..	96 58 07.2	
59	77 5,519	" .. ..	96 59 26.3	
60	78 5,519	" .. ..	97 00 45.5	
61	79 5,519	" .. ..	97 02 04.7	
62	80 5,519	" .. ..	97 03 23.9	
63	81 5,519	" .. ..	97 04 43	
64	82 5,519	" .. ..	97 06 02.2	
65	83 5,519	" .. ..	97 07 21.4	
66	84 5,519	" .. ..	97 08 40.6	West bank of Joe River.
67	85 5,519	" .. ..	97 09 59.7	
68	86 5,519	" .. ..	97 11 18.9	
69	87 5,519	" .. ..	97 12 38.1	East of Red River.
70	88 4,936	" .. ..	97 13 51.5	Red River Astronomical Station.
71	88 5,519	" .. ..	97 13 57.3	
72	89 5,519	" .. ..	97 15 16.4	
73	90 5,519	" .. ..	97 16 35.6	
74	91 5,519	" .. ..	97 17 54.8	
75	92 5,519	" .. ..	97 19 14.0	
76	93 5,519	" .. ..	97 20 33.1	
77	94 5,519	" .. ..	97 21 52.3	
78	95 5,519	" .. ..	97 23 11.5	Marais River.
79	96 5,519	" .. ..	97 24 30.7	
80	97 5,519	" .. ..	97 25 49.8	
81	98 5,519	" .. ..	97 27 09	Manitoba principal Meridian.
82	99 5,519	" .. ..	97 28 28.2	
83	100 5,519	" .. ..	97 29 47.4	
84	101 5,519	" .. ..	97 31 06.5	
85	102 5,519	" .. ..	97 32 25.7	
86	103 5,519	" .. ..	97 33 44.9	
87	104 5,519	" .. ..	97 35 04.1	
88	105 5,519	" .. ..	97 36 23.2	
89	106 5,519	" .. ..	97 37 42.4	
90	107 5,519	" .. ..	97 39 01.6	
91	108 5,519	" .. ..	97 40 20.8	Grants, or Pointe Michel.
92	109 5,519	" .. ..	97 41 39.9	
93	110 5,519	" .. ..	97 42 59.1	
94	111 5,519	" .. ..	97 44 18.3	
95	112 5,519	" .. ..	97 45 37.5	
96	113 5,519	" .. ..	97 46 56.6	
97	114 6,319	" .. ..	97 48 23.7	
98	115 5,519	" .. ..	97 49 35.0	
99	116 5,519	" .. ..	97 50 54.1	
100	117 5,519	" .. ..	97 52 13.3	
101	118 5,519	" .. ..	97 53 32.5	
102	119 5,519	" .. ..	97 54 51.7	
103	120 5,519	" .. ..	97 56 10.9	
104	121 5,519	" .. ..	97 57 30	
105	122 5,519	" .. ..	97 58 49.2	
106	123 5,519	" .. ..	98 00 08.4	Base of Pembina Mountain.
107	124 5,519	" .. ..	98 01 27.6	
108	125 5,519	" .. ..	98 02 46.7	
109	126 5,519	" .. ..	98 04 05.9	
110	127 5,519	" .. ..	98 05 25.1	
111	128 5,519	" .. ..	98 06 44.3	
112	129 5,519	" .. ..	98 08 03.4	
113	130 5,519	" .. ..	98 09 22.6	
114	131 5,519	" .. ..	98 10 41.8	

No.	Distance from Lake of the Woods.		Nature of Monument.				Longitude West of Greenwich.	Remarks.
	Miles.	Links.						
115.	132	6,065	Iron pillar	..	..	..	98 12 06.5	Near west bank of Pembina River.
116	133	2,307	"	..	..	..	98 14 07.5	Top of ridge west of Pembina River.
117	134	5,519	"	..	..	..	98 14 39.3	
118	135	5,519	"	..	..	..	98 15 58.5	Near United States' Astronomical Station, No. 4.
119	136	5,519	"	..	..	..	98 17 17.6	
120	137	5,519	"	..	..	..	98 18 36.8	
121	138	5,519	"	..	..	..	98 19 56.0	
122	139	5,519	"	..	..	..	98 21 15.2	
123	140	5,519	"	..	..	..	98 22 34.4	
124	141	5,519	"	..	..	..	98 23 53.5	
125	142	5,519	"	..	..	..	98 25 12.7	
126	143	5,519	"	..	..	..	98 26 31.9	
127	144	5,519	"	..	..	..	98 27 51.1	
128	145	5,519	"	..	..	..	98 29 10.2	
129	146	5,519	"	..	..	..	98 30 29.4	
130	147	5,519	"	..	..	..	98 31 48.6	
131	148	5,519	"	..	..	..	98 33 07.8	
132	149	5,519	"	..	..	..	98 34 26.9	East bank of large Coule.
133	150	5,519	"	..	..	..	98 35 46.1	
134	151	5,519	"	..	..	..	98 37 05.3	
135	152	5,519	"	..	..	..	98 38 24.5	
136	153	5,519	"	..	..	..	98 39 43.6	Near Coule, east bank.
137	154	5,519	"	..	..	..	98 41 02.8	
138	155	5,519	"	..	..	..	98 42 22.0	
139	156	5,519	"	..	..	..	98 43 41.1	
140	157	5,519	"	..	..	..	98 45 00.3	
141	158	5,519	"	..	..	..	98 46 19.5	Near crossing of Half-Breed trail.
142	159	5,519	"	..	..	..	98 47 38.7	
143	160	5,519	"	..	..	..	98 48 57.9	
144	161	5,519	"	..	..	..	98 50 17	
145	162	5,519	"	..	..	..	98 51 36.2	
146	163	5,519	"	..	..	..	98 52 55.4	
147	164	5,519	"	..	..	..	98 54 14.6	
148	165	5,519	"	..	..	..	98 55 33.7	
149	166	5,519	"	..	..	..	98 56 52.9	
150	167	5,519	"	..	..	..	98 58 12.1	
151	168	5,519	"	..	..	..	98 59 31.3	
152	169	420	"	..	..	..	99 00 00	Western boundary of Manitoba.
153	169	5,519	"	..	..	..	99 00 50.4	
154	170	5,519	"	..	..	..	99 02 09.6	
155	170	6,998	Stone cairn,	13	Ft.	7*	99 02 24.2	
156	172	7,154	"	13	Ft.	7*	99 05 04.2	
157	175	7,662	"	13	Ft.	7*	99 09 06.7	
158	176	5,485	"	10	Ft.	6*	99 10 04.3	
159	178	6,527	Earth mound,	16	Ft.	7*	99 12 53	
160	180	7,412	"	16	Ft.	7*	99 15 40.1	
161	183	1,414	"	10	Ft.	5*	99 18 38.3	
162	183	3,911	"	9	Ft.	6*	99 19 03	Sleepy Hollow Astronomical Station.
163	186	3,911	"	9	Ft.	6*	99 23 00.5	
164	189	1,228	"	9	Ft.	6*	99 26 31.5	
165	191	5,717	"	9	Ft.	6*	99 29 54.2	
166	195	1,272	"	9	Ft.	6*	99 34 27	
167	198	3,911	"	9	Ft.	6*	99 38 50.6	
168	201	7,911	"	9	Ft.	6*	99 43 27.7	
169	203	7,729	"	14	Ft.	6*	99 46 04.2	Turtle Mountain East Astronomical Station.
170	206	7,729	"	14	Ft.	6*	99 50 01.8	
171	209	5,582	"	14	Ft.	6*	99 53 38	
172	212	7,729	"	14	Ft.	6*	99 57 56.8	
173	215	1,996	"	14	Ft.	6*	100 00 57.6	
174	218	7,729	"	14	Ft.	6*	100 05 51.9	
175	221	7,248	"	14	Ft.	6*	100 09 44.6	
176	224	7,729	"	14	Ft.	6*	100 13 46.9	
177	227	6,470	"	14	Ft.	6*	100 17 32	
178	229	7,245	"	14	Ft.	6	100 20 18	East shore of Boundary Lake.
179	233	3,787	"	9	Ft.	6*	100 25 05.5	High ridge east of Summit Lake.
180	235	2,660	"	9	Ft.	6*	100 27 27.7	On slope of Turtle Mountain, and outside of timber.
181	237	6,968	Stone cairn,	16	Ft.	7*	100 30 48.7	East of Turtle Mountain, West Astronomical Station.
182	243	1,114	"	16	Ft.	7*	100 37 45.8	
183	247	649	"	16	Ft.	7*	100 42 57.9	

No.	Distance from Lake of the Woods.		Nature of Monument.		Longitude West of Greenwich.	Remarks.
	Miles.	Links.		Ft. Ft.	" "	
184	249	3,036	Stone cairn,	16 × 7*	100 45 59.9	First crossing of Mouse River on west bank, Astronomical Station.
185	252	5,896	"	16 7*	100 50 25.7	
186	255	2,940	Earth mound,	8 5*	100 53 54	
187	256	3,880	Stone,	16 7*	100 55 22.4	
188	258	744	Earth mound,	5 8*	100 57 29.8	
189	261	744	"	5 8*	101 01 27.3	Right bank of South Antler Creek. Left ditto.
190	264	744	"	5 8*	101 05 24.8	
191	267	744	"	5 8*	101 09 22.3	
192	270	744	"	5 8*	101 13 19.9	
193	273	744	"	5 8*	101 17 17.4	
194	276	744	"	5 8*	101 21 14.9	On prairie, near South Antler Creek.
195	279	744	"	5 8*	101 25 12.4	
196	281	1,973	Stone cairn,	10 5*	101 28 02.9	
197	283	3,146	"	15 6*	101 30 52.9	
198	286	448	"	15 6*	101 34 23.7	
199	288	5,976	Earth mound,	15 6*	101 37 56.8	East bank of Mouse River, near road. Second crossing of Mouse River, Astronomical Station.
200	291	514	Stone cairn,	15 6*	101 41 00.2	
201	294	7,699	Earth mound,	12 6*	101 46 08.9	
202	297	2,521	"	12 6*	101 49 15.1	
203	300	1,250	Stone cairn,	12 6*	101 53 00.1	
204	301	5,152	"	12 6*	101 54 57.9	East of Rivière des Lacs. West of ditto.
205	303	7,150	Earth mound,	5 8*	101 57 56	
206	306	7,150	"	5 8*	102 01 53.6	
207	309	7,150	"	5 8*	102 05 51.1	
208	312	7,678	"	5 8*	102 09 53.8	
209	315	7,150	"	5 8*	102 13 46.1	Astronomical Station.
210	319	398	"	5 8*	102 17 56	
211	321	7,150	"	5 8*	102 21 41.2	
212	325	3,846	"	14 6*	102 26 25.2	
213	329	7,294	Stone cairn,	8 6*	102 32 16	
214	331	5,986	Earth mound,	14 6*	102 34 41.4	East bank of Coulé. East bank of Short Creek. British Astronomical Station, Short Creek west branch.
215	334	5,167	Stone,	8 6*	102 38 30.8	
216	337	1,260	Earth mound,	10 5*	102 41 49.7	
217	340	1,291	Stone,	10 5*	102 45 47.5	
218	342	2,814	Earth mound,	13 6*	102 48 40.9	
219	343	2,892	"	9 6*	102 50 00.9	Near Half-breed Road, east bank of Mouse River. West of Mouse River. Third Mouse Astronomical Station.
220	346	472	"	12 6*	102 53 34.4	
221	349	2,410	"	12 6*	102 57 51.1	
222	352	4,392	"	12 6*	103 02 08.3	
223	356	770	"	12 5*	103 06 49.1	
224	359	3,254	Stone,	12 5*	103 11 11.2	East of Mouse River. West of Mouse River. Grand Coteau Astronomical Station base of Coteau.
225	361	7,908	Earth mound,	18 8*	103 14 35.7	
226	364	3,666	"	18 8*	103 17 51.2	
227	369	336	"	16 6*	103 23 54.1	
228	372	4,136	"	16 6*	103 28 29.3	
229	374	5,825	Stone,	12 7*	103 31 24.3	Mid Coteau Astronomical Station.
230	377	2,977	Earth mound,	12 6*	103 34 53.7	
231	379	7,417	"	12 6	103 38 16	
232	382	4,013	"	12 6	103 41 39.8	
233	385	1,896	"	12 6	103 45 16.4	
234	388	6,377	"	12 6	103 49 58.2	East side of Large Coulé. West side of Large Coulé.
235	392	4,139	"	12 6	103 54 52.8	
236	395	4,462	"	12 6	103 58 53.5	
237	398	6,241	"	12 6	104 03 08.6	
238	400	4,925	"	10 5	104 05 34	
239	403	2,392	"	10 5	104 09 06.4	Big Muddy Astronomical Station.
240	405	5,407	Stone,	10 5	104 12 14.6	
241	407	6,966	"	10 5	104 15 08.4	
242	410	4,899	Earth,	10 5	104 18 45.5	
243	413	3,675	"	10 5	104 22 30.9	
244	417	2,411	"	10 5	104 27 35	Big Muddy Astronomical Station.
245	421	2,177	Stone,	10 5	104 32 49.4	
246	424	941	"	10 5	104 36 34.7	
247	426	5,035	Earth,	14 6	104 39 53.6	
248	429	4,938	"	14 6	104 43 50.2	

No.	Distance from Lake of the Woods.		Nature of Monument.		Longitude West of Greenwich.	Remarks.
	Miles.	Links.	Ft.	Ft.		
249	432	1,370	Earth mound,	14 x 6	104 47 12.4	East of Pyramid Creek.
250	435	3,035	"	14 6	104 51 26.4	On west bluff of Pyramid Creek.
251	437	1,489	"	14 6	104 53 49.4	
252	440	7,152	"	14 6	104 58 43	East of Big Muddy River.
253	444	5,081	"	14 6	105 03 39.2	West of Big Muddy River.
254	447	5,311	Stone,	12 6	105 07 39	
255	451	1,841	"	10 5	105 12 21.4	Bully Spring, United States Astronomical Station, No. 11.
256	451	4,321	"	10 5	105 12 45.9	
257	454	4,541	Earth mound,	10 5	105 16 45.6	
258	457	5,874	"	10 5	105 20 56.3	
259	460	5,841	"	10 5	105 24 53.5	In a broad valley.
260	464	4,632	"	10 5	105 29 58.3	
261	467	4,826	"	10 5	105 33 57.7	
262	472	732	"	10 5	105 39 53.1	In valley of Poplar River.
263	473	3,454	"	14 6	105 41 39.2	Poplar River Astronomical Station.
264	476	3,454	"	14 6	105 45 36.7	
265	479	3,332	"	14 6	105 49 33	
266	482	3,454	"	14 6	105 53 31.8	
267	485	3,454	"	14 6	105 57 29.3	
268	488	3,454	"	14 6	106 01 26.8	
269	491	2,054	"	14 6	106 05 10.5	
270	494	3,454	"	14 6	106 09 21.8	
271	496	6,906	Stone,	15 6*	106 12 34.3	West Poplar River Astronomical Station.
272	498	6,821	Earth mound,	12 7*	106 15 11.9	
273	501	1,299	"	12 7*	106 18 14.7	
274	502	7,391	"	12 7*	106 20 34.2	On edge of west branch of Poplar River.
275	505	356	"	12 7*	106 23 22.1	
276	510	170	"	12 7*	106 29 56.1	
277	511	1,061	Stone,	10 6*	106 31 24.1	
278	514	1,239	"	10 6*	106 35 23.4	
279	518	3,641	Earth mound,	12 7*	106 41 03.9	
280	520	7,605	Stone,	10 6*	106 44 21.5	East of Little Rocky Creek.
281	522	4,742	Earth mound,	14 6*	106 46 31.5	Little Rocky Creek Astronomical Station, west of Creek.
282	525	3,103	Stone,	10 6*	106 50 12.8	
283	528	764	"	10 6*	106 53 47.2	
284	531	2,323	"	10 6*	106 58 00.1	
285	534	7,642	"	10 6*	107 02 50.3	
286	537	1,010	"	10 6*	107 05 42.2	
287	541	7,704	"	10 6*	107 12 05.1	On east bluff of Frenchman's Creek.
288	544	7,513	Earth mound,	12 6*	107 16 00.8	
289	548	3,375	Stone,	10 6*	107 20 36.5	On west bluff of Frenchman's Creek.
290	550	6,740	"	10 6*	107 23 48.2	Frenchman's Creek Astronomical Station.
291	553	1,607	"	10 6*	107 26 54.9	Near Lake.
292	557	2,460	"	10 6*	107 32 20	
293	560	3,708	"	10 6*	107 36 29.9	
294	563	2,270	"	10 6*	107 40 13.2	
295	565	2,322	"	10 6*	107 42 52.1	
296	567	3,881	"	12 6*	107 45 45.8	Cottonwood Coule Astronomical Station.
297	570	3,891	"	12 6*†	107 49 48.4	
298	573	3,881	"	10 6*	107 53 40.9	
299	576	3,881	"	10 6*†	107 57 38.4	On west bank of Cottonwood Coule.
300	579	3,881	"	10 6*	108 01 35.9	
301	582	3,881	"	10 6*†	108 05 33.5	
302	585	3,881	"	10 6*†	108 09 31	
303	588	1,931	"	10 6*	108 13 09.2	Pool on Prairie, Astronomical Station.
304	591	6,187	"	10 6*	108 17 48.8	
305	596	5,787	"	10 6*	108 24 20.8	
306	599	228	"	10 6*	108 27 23.3	
307	601	2,182	"	10 6*	108 30 21	
308	605	6,789	"	10 6*	108 36 23.3	
309	608	6,593	"	10 6*	108 40 18.9	
310	613	378	"	10 6*	108 45 53.2	
311	615	3,202	"	12 6*	108 48 59.5	Near Goose Lake Astronomical Station.



No.	Distance from Lake of the Woods.		Nature of Monument.		Longitude West of Greenwich.	Remarks.
	Miles.	Links.		Ft. Ft.		
312	618	3,202	Stone,	10 x 6*	108 52 57	
313	621	1,085	"	10 6*	108 56 33-6	
314	624	2,737	"	10 6*	109 00 47-5	
315	627	571	"	10 6*	109 04 23-6	
316	630	4,402	"	10 6*	109 08 59	
317	632	4,005	"	10 6*	109 11 33-4	
318	635	4,459	Stone and earth mound	10 6*	109 15 35-5	
319	639	4,147	Stone,	10 6*	109 20 49-1	
320	642	218	"	10 6*	109 24 07-7	East Fork, Astronomical Station in river bottom.
321	643	6,856	"	10 6*	109 26 32-6	
322	646	2,305	"	10 6*	109 29 46	
323	649	2,001	"	10 6*	109 33 39-6	
324	651	1,113	Earth mound,	12 7*	109 36 09-2	
325	655	2,357	Stone,	10 6*†	109 41 38-2	West Fork, Astronomical Station in river bottom.
326	658	2,357	"	10 6*†	109 45 35-7	
327	661	2,357	"	10 6*†	109 49 33-2	
328	664	2,357	"	10 6*†	109 53 30-7	
329	667	2,357	"	10 6*	109 57 28-2	
330	670	2,357	"	10 6*†	110 01 25-8	
331	673	2,357	"	10 6*†	110 05 23-3	
332	677	281	"	10 8*	110 10 19-5	Milk River Lake Astronomical Station.
333	680	497	Earth and stone mound	10 6*	110 14 19-1	
334	683	1,144	"	10 6*	110 18 23-1	
335	685	5,545	Stone,	10 6*	110 21 45	
336	699	3,677	"	10 6*	110 39 54-9	
337	702	3,023	"	12 6*	110 43 46	West of Milk River Astronomical Station.
338	705	7,527	"	10 6*	110 48 28-1	
339	708	3,204	"	10 6*	110 51 42-8	
340	711	3,444	"	10 6*	110 55 42-7	On west bank of Large Coule.
341	714	2,412	"	10 6*	110 59 30	
342	717	7,848	"	10 6*	111 04 21-3	
343	720	5,550	"	10 6*	111 07 56-1	On crest of spur.
344	723	383	"	10 6*	111 11 02-5	Mound on west slope of spur of East Butte.
345	726	4,094	"	10 6*	111 15 35-8	
346	730	573	"	10 6*	111 20 18-6	
347	734	724	"	10 7*	111 25 36-8	
348	738	5,383	"	14 8*	111 31 39-6	East of West Butte.
349	740	197	"	10 6*†	111 33 26-6	West of West Butte.
350	742	6,392	"	10 6*†	111 37 06-3	
351	745	6,377	"	10 6*†	111 41 03-7	
352	748	6,766	"	10 6*†	111 45 05-1	Near Creek.
353	751	5,770	"	10 6*†	111 48 52-7	
354	754	5,770	"	10 6*†	111 52 56-2	
355	757	7,524	"	10 6*†	111 57 05-1	
356	760	3,160	"	10 6*	112 00 19-5	Red Creek Astronomical Station.
357	763	7,188	"	10 6*	112 04 56-8	East of Red Creek, near Whoop- up Trail.
358	768	2,493	"	10 6*	112 10 46-3	
359	771	4,268	"	10 6*	112 15 01-4	
360	774	4,353	"	10 6*	112 18 59-7	
361	777	2,061	"	10 6*	112 22 34-6	
362	779	2,675	"	10 6*	112 25 19	
363	781	6,772	"	10 6*	112 28 37-9	
364	785	279	"	12 6*	112 32 50-3	South branch Milk River. Astro- nomical Station on west bank.
365	787	6,221	"	10 6*	112 36 27-5	
366	790	7,610	"	10 6*	112 40 38-7	
367	793	7,613	"	10 6*	112 44 36-3	
368	798	2,305	"	10 6*	112 50 19-6	
369	801	3,201	"	10 6*	112 54 26	
370	804	3,361	"	10 6*	112 58 25-1	East Bluff, north branch of Milk River. Astronomical Station.
371	807	6,209	"	10 6*	113 02 50-8	On Milk River ridge.
372	811	2,846	"	10 6*	113 07 34-3	In valley.
373	815	319	"	10 6*	113 12 26	On high ridge.
374	817	7,258	"	10 6*	113 16 13	East of St. Mary's River.
375	820	4,680	"	10 6*	113 19 45	West of St. Mary's River.
376	824	3,946	"	10 6*	113 24 54-4	

No.	Distance from Lake of the Woods.		Nature of Monument.			Longitude West of Greenwich.	Remarks.
	Miles.	Links.		Ft.	Ft.		
377	825	6,138	Stone,	12	6*	113 26 35.3	Rocky Mountain. Astronomical Station near lake.
378	828	6,483	"	10	6*†	113 30 36.2	
379	831	2,653	"	10	6*	113 33 59.9	
380	836	3,385	"	12	6*	113 40 39	Belly River Astronomical Station.
381	846	240	"	12	6*	113 53 19.6	Chief Mountain Lake Astronomical Station.
	853	2,529	"	7	6	114 02 56.5	Summit of Rocky Mountains, 1861.

(Signed)

D. R. CAMERON, Major, R.A., Her Britannic Majesty's Commissioner.

ARCHIBALD CAMPBELL, United States' Commissioner.

W. J. TWINING, Captain of Engineers, United States' Chief Astronomer.

S. ANDERSON, Captain, R.E., British Chief Astronomer.

May 29, 1876.

## Inclosure 3.

(c.) A Set of Twenty-four Maps.\*

## Inclosure 4.

(D.)—Record of Proceedings at a meeting of the Commissioners appointed respectively by Her Britannic Majesty and by the President of the United States of America, to ascertain and mark the boundary line between the respective territories of Her Majesty and of the United States, the said line being that defined by the 2nd Article of the Convention of London, signed 20th October, 1818:

## Present:

DONALD R. CAMERON, Major, Royal Artillery, Commissioner on the part of Her Britannic Majesty.

S. ANDERSON, Captain Royal Engineers, Chief Astronomer to Her Majesty's Commission.

A. C. WARD, Captain Royal Engineers, Secretary to Her Majesty's Commission.

ARCHIBALD CAMPBELL, Commissioner on the part of the United States of America.

W. J. TWINING, Captain of the Corps of Engineers of the United States' Army, Chief Astronomer to the United States' Commission.

1. THE Chief Astronomers submit the following documents and maps:—

(a.) A detailed list, in duplicate, of forty astronomical stations in addition to one for the location of the most north-western point of the Lake of the Woods, at which observations were taken under their superintendence to determine the line described in the 2nd Article of the Convention of London (signed 20th October, 1818) between the terminal points, viz., the most north-western point of the Lake of the Woods and the eastern end of the international boundary line, previously marked between Akamina, in the Rocky Mountains, and the western coast of North America.

(b.) A descriptive list, in duplicate, of 388 monuments and marks placed on the boundary line, as derived from the astronomical stations enumerated in the list referred to in section (a) of this paragraph.

(c.) A duplicate set of 24 maps,\* on a scale of  $\frac{1}{126720}$ ths, or 1 inch to 2 miles,

\* These Maps are in the Foreign Office Library.

illustrating the topography of the country through which the boundary line runs, and indicating the relative positions of the various monuments and marks referred to in section (b) of this paragraph.

2. The 2nd Article of the Convention of London, signed 20th October, 1818, is read as follows:—

“It is agreed that a line drawn from the most north-western point of the Lake of the Woods, along the 49th parallel of north latitude, or, if the said point shall not be in the 49th parallel of north latitude, then that a line drawn from the said point due north or south, as the case may be, until the said line shall intersect the said parallel of north latitude, and from the point of such intersection due west along and with the said parallel, shall be the line of demarcation between the territories of His Britannic Majesty and those of the United States; and that the said line shall form the southern boundary of the said territories of His Britannic Majesty, and the northern boundary of the territories of the United States, from the Lake of the Woods to the Stony Mountains.”

3. The duplicate documents and maps enumerated in paragraph numbered (1) —one set for each of the respective Governments—having been examined and compared, are authenticated by the signatures of the Commissioners, who agree as follows:—

(1.) The 388 monuments detailed in the list referred to in section (b) of paragraph numbered 1, are on and mark the astronomical lines stipulated by the 2nd Article of the Convention of London (signed 20th October, 1818), to be the line of boundary between the territories of Her Britannic Majesty and of the United States of America, from the Lake of the Woods to the Stony (i.e., Rocky) Mountains.

(2.) In the intervals between the monuments along the parallel of latitude it is agreed that the line has the curvature of a parallel of 49° north latitude, and that such characteristic shall determine all questions that may hereafter arise with reference to the position of the boundary at any point between neighbouring monuments.

(3.) It is further agreed that, in the event of any of the said 388 monuments or marks being obliterated beyond the power of recognition, the lost site or sites shall be recovered by their recorded position relatively to the next neighbouring unobliterated mark or marks.

(Signed)

D. R. CAMERON, Major, R.A., Her  
Britannic Majesty's Commissioner.

ARCHIBALD CAMPBELL, United  
States' Commissioner.

London, May 29, 1876.



NORTH AMERICA. No. 8 (1876).

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FURTHER CORRESPONDENCE respecting the Determination of the Boundary between Canada and the United States.

(In continuation of "North America No. 1, 1875.")

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*Presented to both Houses of Parliament by Command of Her Majesty. 1876.*

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